



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "10-¹³/₁₆" Deep 1600 System 1 Aluminum Glazed Curtain Wall - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1794, titled series "10¹³/₁₆" Deep 1600 System 1 Curtain Wall (L.M.I.) " , sheets 01 through 12 of 12, dated 03/01/12 with the latest revision "A", dated 09/04/13, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 12-0622.10 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. Gascon
11/13/13

NOA No. 13-1009.09
Expiration Date: January 08, 2019
Approval Date: November 21, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 12-0622.10)
2. Drawing No. 1794, titled Series "10¹³/16" Deep 1600 System 1 Curtain Wall (L.M.I.)", sheets 01 through 12 of 12, dated 03/01/12, with the latest revision "A", dated 09/04/13, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-B3877.01-550-18**, dated 02/20/12, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 12-0622.10)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0202-05**, dated 02/07/05 and 05/21/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0727.07)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-1106-00**, dated 06/29/01, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 01-0815.01)



Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 13-1009.09

Expiration Date: January 08, 2019

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B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0049-0406-01, dated 06/29/01, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 01-0815.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 03/13/12, signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 12-0622.10)

2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 13-0129.27 issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. 11-0624.02 issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
3. Notice of Acceptance No. 12-1231.09 issued to **Eastman Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 03/28/13, expiring on 04/14/18.
4. Notice of Acceptance No. 12-1231.10 issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/28/13, expiring on 05/21/16.
5. Trelleborg Part No. **BRM-270400** EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1509 PSI; D395B 22 HRS @ 70°F 16%; ASTM D 2240 Type A 70; ASTM D 573 70 HRS @ 100°C +2.0%, -9.2% and + 6 pts.; ASTM D 624-Die-C 101.7 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -42.8°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit.

(Submitted under previous NOA No. 12-0622.10)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-1009.09

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D. MATERIAL CERTIFICATIONS (CONTINUED)

6. Test Reports No.'s **ARDL-PN-74740-A** and **ARDL-PN-7474-BB**, issued and prepared by Akron Rubber Development Laboratory, Inc., dated 08/21/02, for TREMCO EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1871 PSI, D395B 22 HRS 100°C 14.4%; ASTM D 573 70 HRS @ 100°C -5.0%, -2.2% and + 4 pts.; ASTM D 624-Die-C 162.2 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -58°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit, dated 08/28/07 and 09/04/07, both signed by Jim Drummond.
(Submitted under previous NOA No. 07-0727.07)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, issued by W.W. Schaefer Engineering & Consulting, P. A., dated 09/03/13, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of independence and no financial interest, issued by W.W. Schaefer Engineering & Consulting, P. A., dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.
3. Notification of successor engineer per section 61g15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to the curtain wall system 1600 System 1 & 2 of Kawneer Company, Inc., dated 02/29/12, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 12-0622.10)
4. Laboratory compliance letter for Test Report No. **ATI-B3877.01-550-18**, issued by Architectural Testing, Inc., dated 05/22/12, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 12-0622.10)
5. Laboratory compliance letters for Test Report No. **HTL-0049-0202-05**, issued by Hurricane Test Laboratory, Inc., dated 02/07/05 and 05/21/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0727.07)
6. Laboratory addendum letters for Test Reports No.'s **HTL-0049-0406-01** and **HTL-0049-1106-00**, both issued by Hurricane Test Laboratory, Inc., dated 09/15/03, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 03-0515.07)



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 13-1009.09
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Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

7. Laboratory compliance letters for Test Reports No.'s **HTL-0049-0406-01** and **HTL-0049-1106-00**, both issued by Hurricane Test Laboratory, Inc., dated 06/29/01, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 01-0815.01)

G. OTHERS

1. Notice of Acceptance No. **12-0622.10**, issued to Kawneer Company, Inc., for their Series "10-¹³/₁₆" **Deep 1600 System 1 Aluminum Glazed Curtain Wall – L.M.I.**", approved on 08/30/12 and expiring on 01/08/14.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
Reference only 2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-B8873.01-550-18**, dated 05/22/12, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 12-0622.10)



Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 13-1009.09
Expiration Date: January 08, 2019
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1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT CURTAIN WALL SYSTEMS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS CURTAIN WALL SYSTEM.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW LOAD VERIFICATION ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

ONE-PIECE VERTICAL AND HORIZONTAL FRAMING AND INTERMEDIATES: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #9). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 1 1/2" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

TWO-PIECE VERTICAL AND HORIZONTAL FRAMING AND INTERMEDIATES: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #9). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 12 X 7/16" PHTF SCREWS & . THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 FH & 2 PH NO. 12 X 1 1/2" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.





GLASS D.L.O. SIZE VS. PRESSURE			
GLASS OPTIONS	MAXIMUM D.L.O. WIDTH	MAXIMUM D.L.O. HEIGHT	ALLOWABLE DESIGN PRESSURE
1, 2, 3, 6 & 7	58 1/2"	93 1/2"	+/-90 PSF
	57 3/4"	94 3/4"	+/-90 PSF
	73 3/4"	54 5/8"	+/-90 PSF
4 & 5	58 1/2"	93 1/2"	+/-65 PSF
	57 3/4"	94 3/4"	+/-65 PSF
	73 3/4"	54 5/8"	+/-65 PSF
8	58 1/2"	93 1/2"	+/-110 PSF
	57 3/4"	94 3/4"	+/-110 PSF
	73 3/4"	54 5/8"	+/-110 PSF
SEE GLAZING DETAILS FOR GLASS OPTIONS			
HEIGHT & WIDTH MAY NOT BE INTERCHANGED!			

ANCHOR REQUIREMENTS TABLE (SINGLE SPAN REINFORCED & NON-REINFORCED CURTAIN WALL)			
OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
F--PERIMETER ANCHOR SCREWS			
MIN. 16 GA. 50 KSI METAL STUD	1/4--14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" DIA. GR. 5 COARSE THREAD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	1/4--14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	2 1/2"	2 1/2"
T, F & U--ANCHOR SCREWS/BOLTS (VERTICAL MEMBER ENDS)			
MIN. 1/4" THK A36 STEEL	3/8"--16 430 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	3/4"
	3/8" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	3/4"
	1/4--14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
	1/4" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	1/2"
	5/16--24 GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
	5/16" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	5/8"
(2) MIN. 3000 PSI CONCRETE	(1) 1/2" CONCRETE SCREW ANCHOR	3 1/4"	SEE DETAILS
(1) 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).			
(2) MINIMUM CONCRETE SLAB THICKNESS FOR PLACEMENT OF "T", "F" & "U" ANCHORS IS 6 3/4".			

PRODUCT RENEWED
as complying with the Florida
Building Code 13-
Acceptance No 0110
Expiration Date 0110
By [Signature]
Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR NATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

[illegible]

ANCHOR LEGEND	
ANCHOR SYMBOL	ANCHOR DESCRIPTION
	STANDARD WIND LOAD ANCHOR
	STANDARD T-ANCHOR
	DOOR JAMB U-ANCHOR
	F-ANCHOR (FRAME MEMBER ENDS)

SEE SHEETS 4-6 FOR DETAILS OF ANCHORS

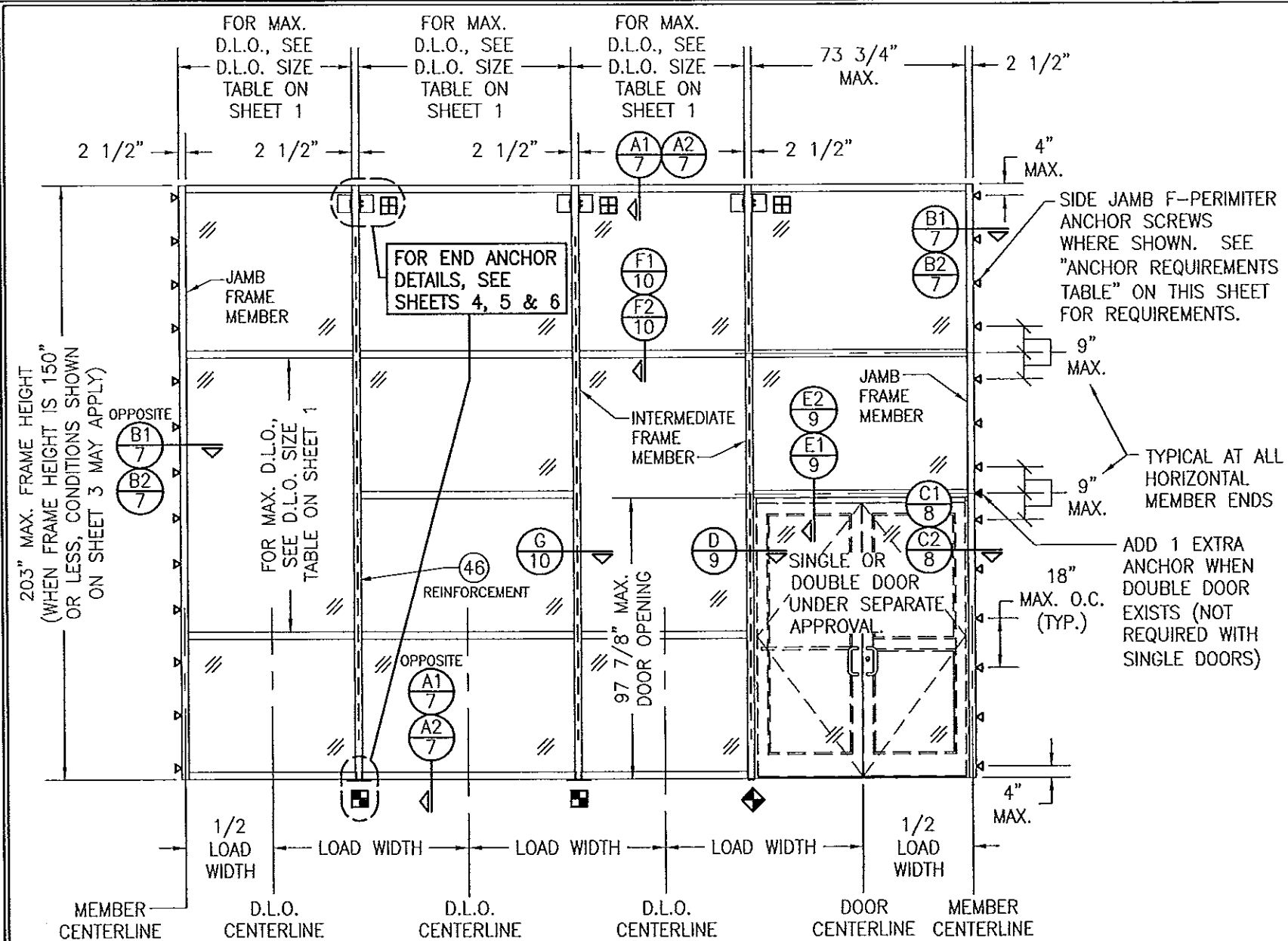
DRAWING TITLE
 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)

CERTIFICATION

SEP 04 2013

WARREN W. SCHAEFER, P.E.

DRAWING NO.	REV.
1794	A
SHEET NO.	
1	OF 12



ALLOWABLE DESIGN PRESSURE (SINGLE SPAN REINFORCED CURTAIN WALL)

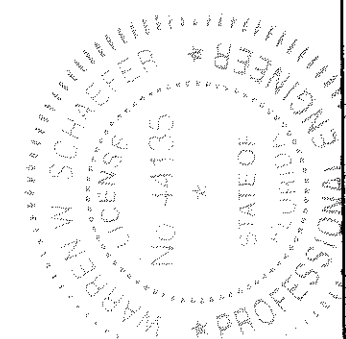
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)
203	76 1/4	81.0
	72	85.8
	68 5/8	90.0
	62	99.6
	56	110.0
192	76 1/4	85.6
	72	90.7
	68 5/8	95.2
	62	105.3
	59	110.0
180 & LESS	76 1/4	90.0
	72	95.3
	68 5/8	100.0
	62	110.0

NOTES:
 1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
 2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA. ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
 3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.
 4. AT SPAN OF 180" & LESS, LOAD WIDTH CONTROLS THE ALLOWABLE PRESSURE. THEREFORE, IT SHALL NOT BE ASSUMED THAT INTERPRETATION OF PRESSURE VALUES CAN BE DONE WITH SPANS UNDER 180". INTERPRETATION OF PRESSURE VALUES BETWEEN THOSE SHOWN MAY APPLY.

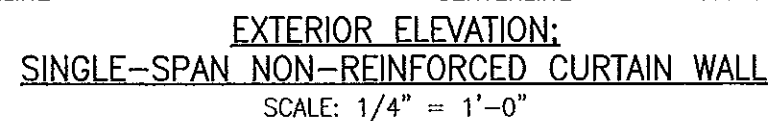
NOTES APPLICABLE TO SINGLE-SPAN REINFORCED CURTAIN WALLS

1. REINFORCEMENT SHALL RUN CONTINUOUS IN INTERMEDIATE VERTICAL MEMBERS & EXTEND TO WITHIN 17 1/2" OF THE ENDS.
2. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
3. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
4. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
5. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.
6. DOOR OPENINGS WIDER THAN THAT SHOWN ARE NOT PART OF THE SCOPE OF THIS APPROVAL. IF WIDER DOOR OPENINGS ARE REQUIRED, THEY SHALL BE EVALUATED & CERTIFIED UNDER SEPARATE JOB APPROVAL.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 13-1009.09
 Expiration Date 01/08/2019
 By *[Signature]*
 Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-48		DATE: 03/01/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER P.E. P.E. NO. 44135			
DRAWING NO. 1794		REV. A	
SHEET NO. 2		OF 12	



1. THE ELEVATION SHOWN ILLUSTRATES SIDE JAMB FRAME MEMBERS WITH FULL SPANS END SUPPORTED BY "F" OR "U" ANCHORS. IT IS OPTIONAL TO OMIT THE "F" & "U" ANCHORS AND INSTALL THE SIDE JAMB F-PERIMETER ANCHOR SCREWS AS SHOWN IN THE REINFORCED WALL ELEVATION ON SHEET 2.
2. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
3. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
4. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
5. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.
6. DOOR OPENINGS WIDER THAN THAT SHOWN ARE NOT PART OF THE SCOPE OF THIS APPROVAL. IF WIDER DOOR OPENINGS ARE REQUIRED, THEY SHALL BE EVALUATED & CERTIFIED UNDER SEPARATE JOB APPROVAL.
7. WHEN THERE IS NO CONTINUOUS JAMB SUPPORT, THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN JAMB FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)
150	76 1/4	81.0
	72	85.8
	68 5/8	90.0
	62	99.6
	56	110.0
144	76 1/4	84.4
	72	89.4
	68 5/8	93.8
	62	103.8
	58	110.0
132 & LESS	76 1/4	90.0
	72	95.3
	68 5/8	100.0
	62	110.0

NOTES:

1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA. ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.
4. AT SPAN OF 132" & LESS, LOAD WIDTH CONTROLS THE ALLOWABLE PRESSURE. THEREFORE, IT SHALL NOT BE ASSUMED THAT INTERPRETATION OF PRESSURE VALUES CAN BE DONE WITH SPANS UNDER 132". INTERPRETATION OF PRESSURE VALUES BETWEEN THOSE SHOWN MAY APPLY.

[illegible]

KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

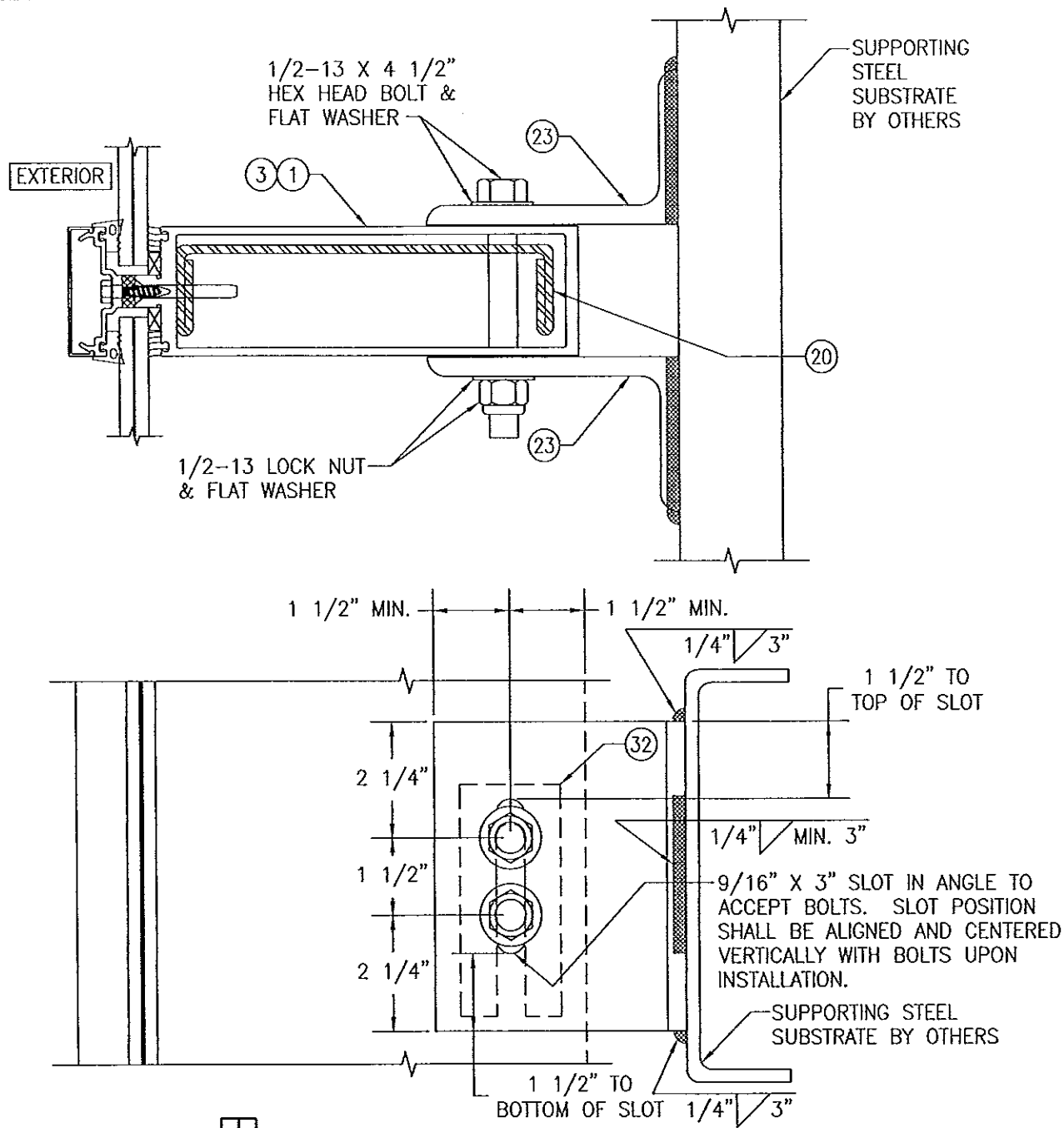
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

~~WARREN W. SCHAEFER, P.E.~~

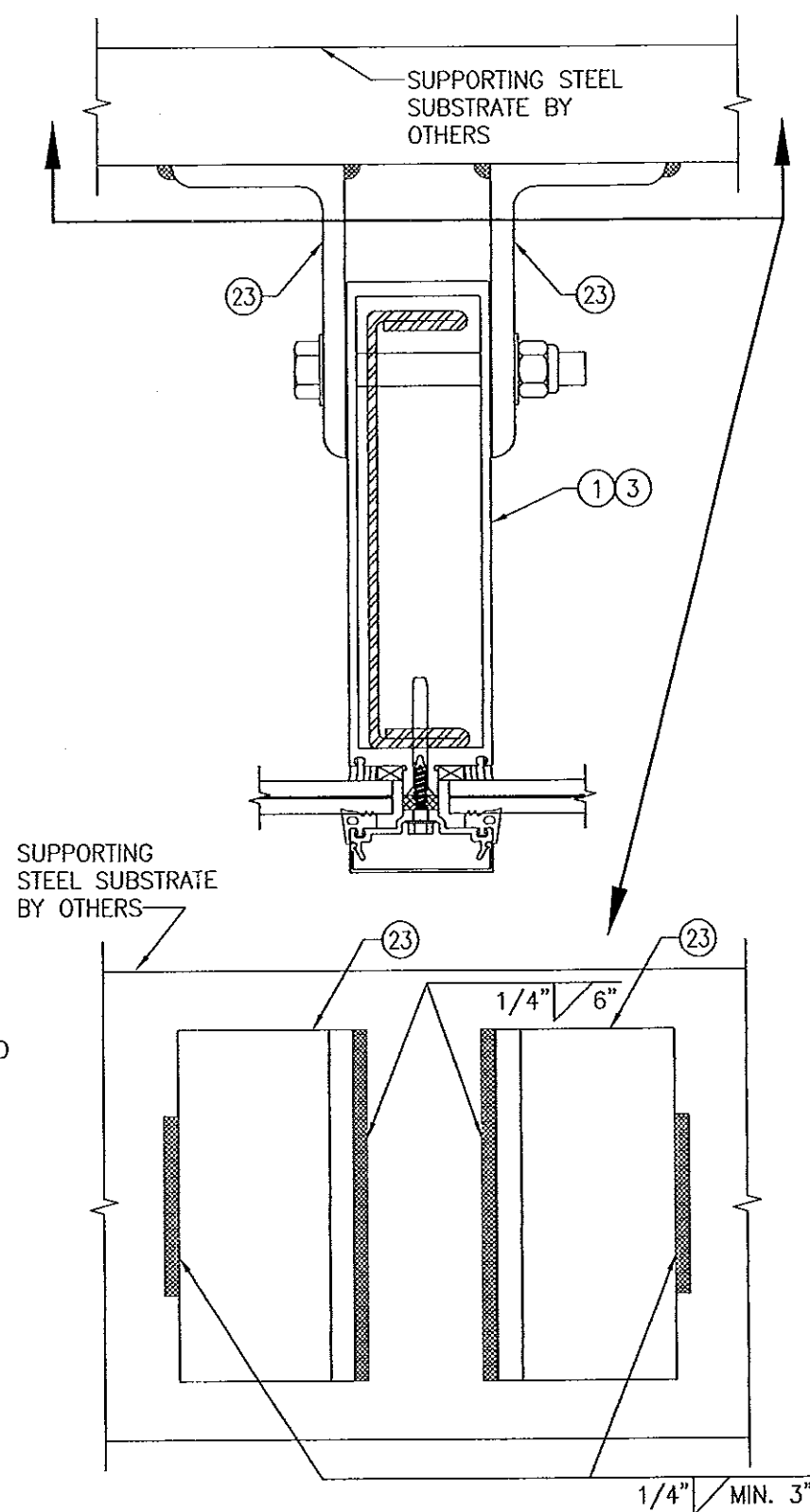
DRAWING NO.	REV.
1794	A
SHEET NO.	
3	OF 12

PRODUCT RENEWED
as complying with the Florida
Building Code **13-1**
Acceptance No. **0110**
Expiration Date

By K. J. [Signature]
 Maia



NOTE: ALL 1/2" BOLTS CONNECTING ANGLES TO MULLIONS SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.



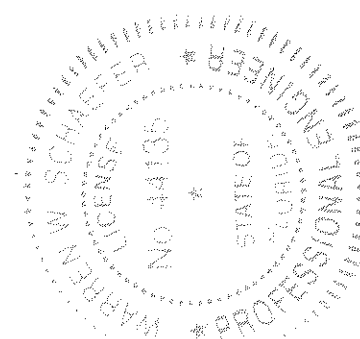
PRODUCT RENEWED as complying with the Florida Building Code

Acceptance No. 13-1009.09

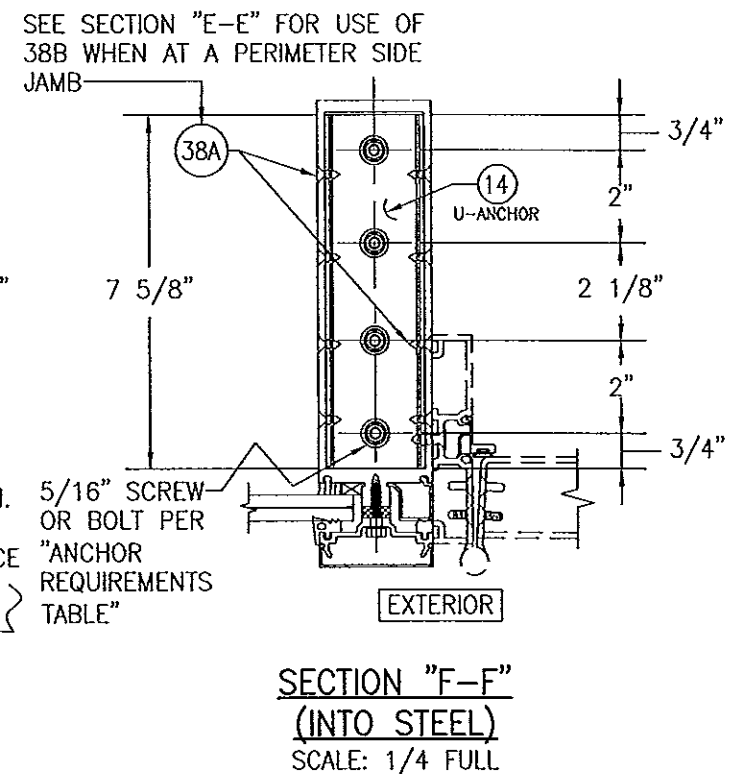
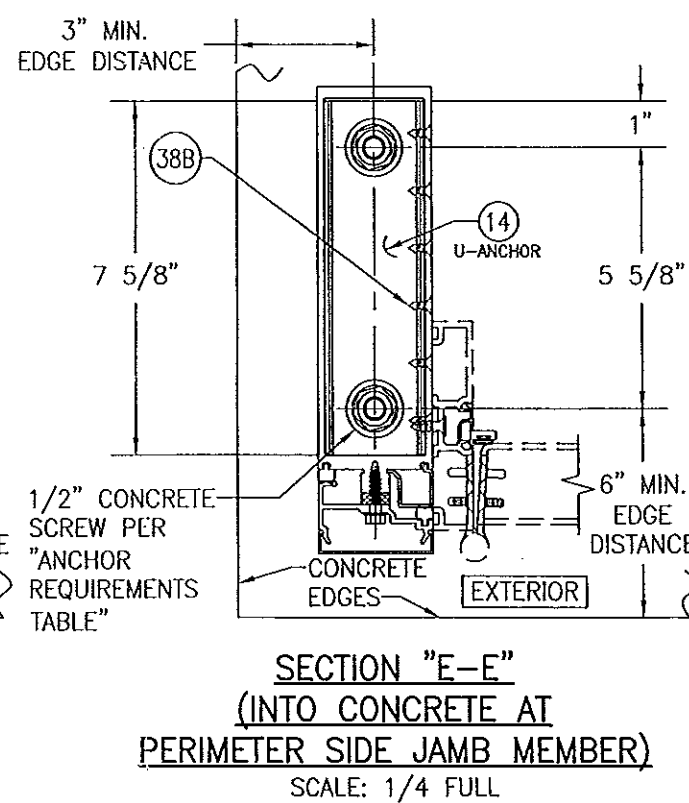
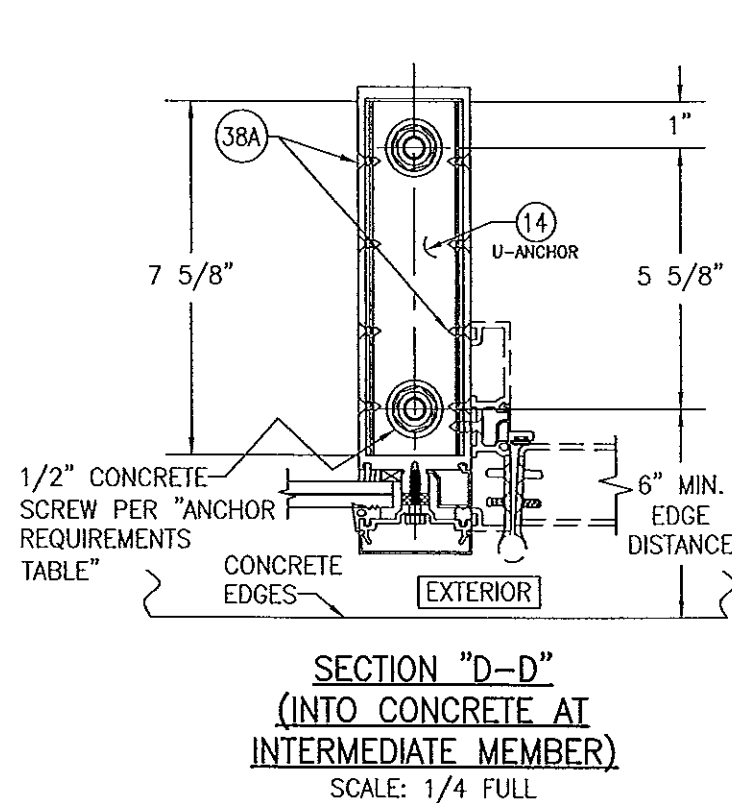
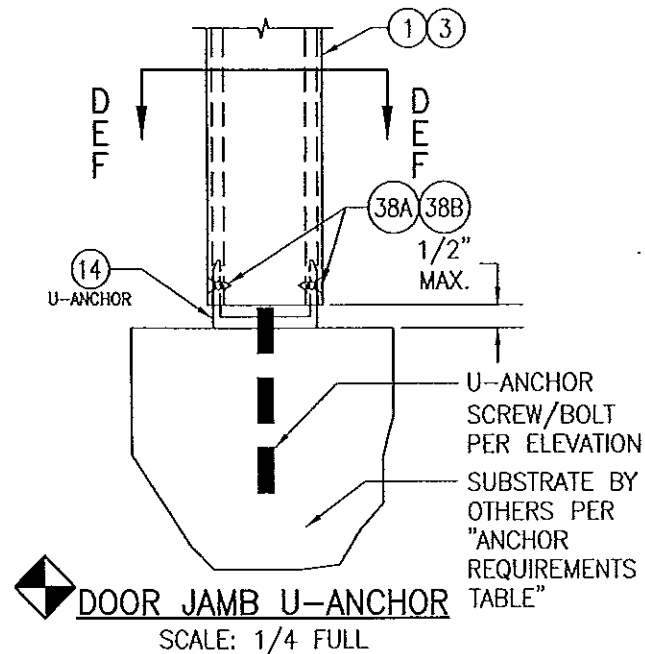
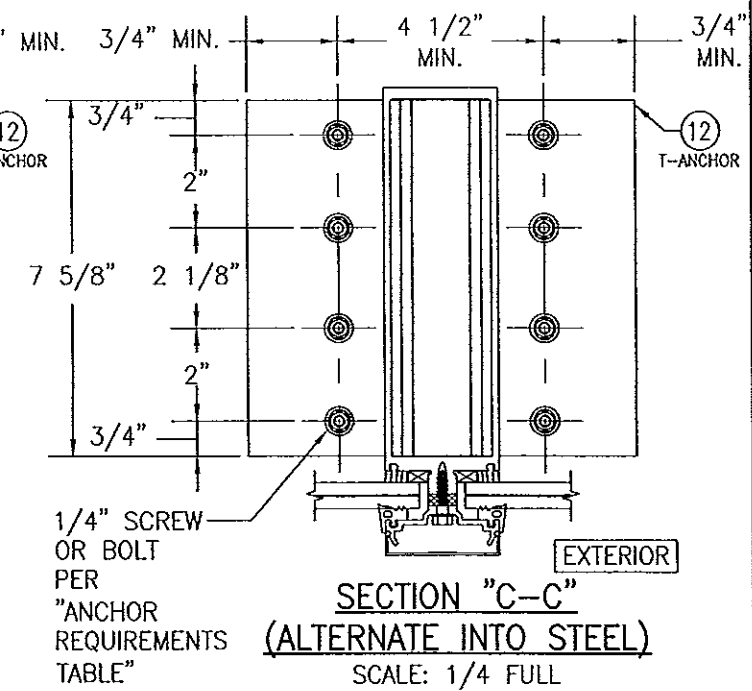
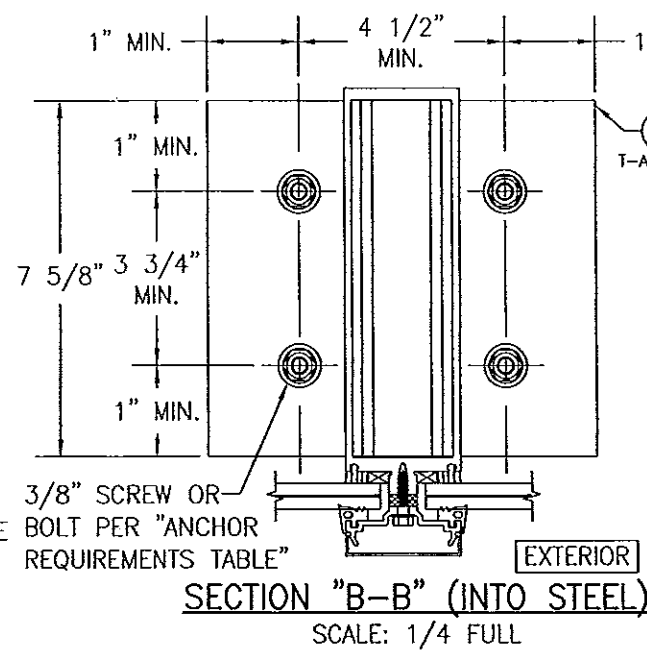
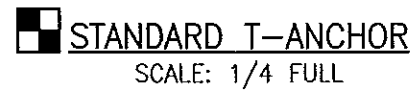
Expiration Date 01/08/2019

By [Signature]

Miami Dade Product Control



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=3	DATE: 03/01/12
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	SEP 04 2013
WARREN W. SCHAEFER, P.E.	P.E. NO. 44135
DRAWING NO. 1794	REV. A
SHEET NO. 4 OF 12	

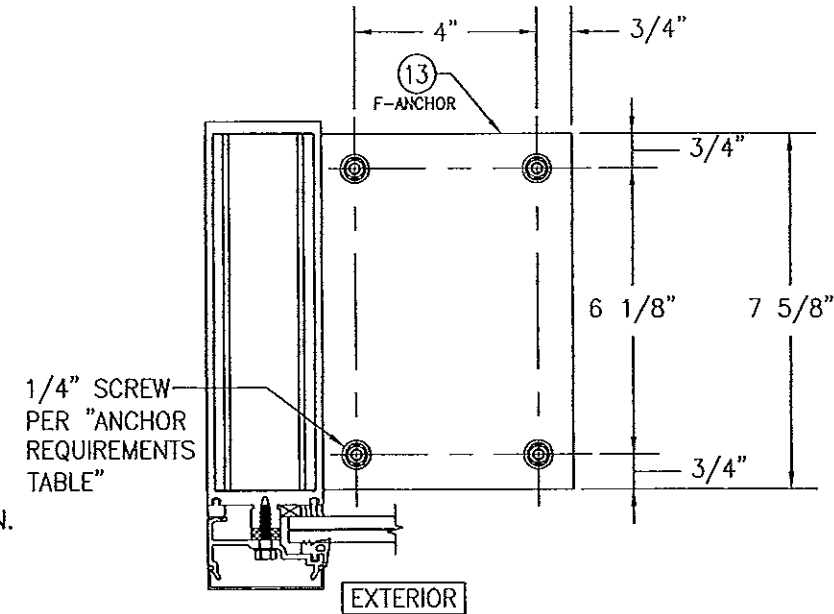
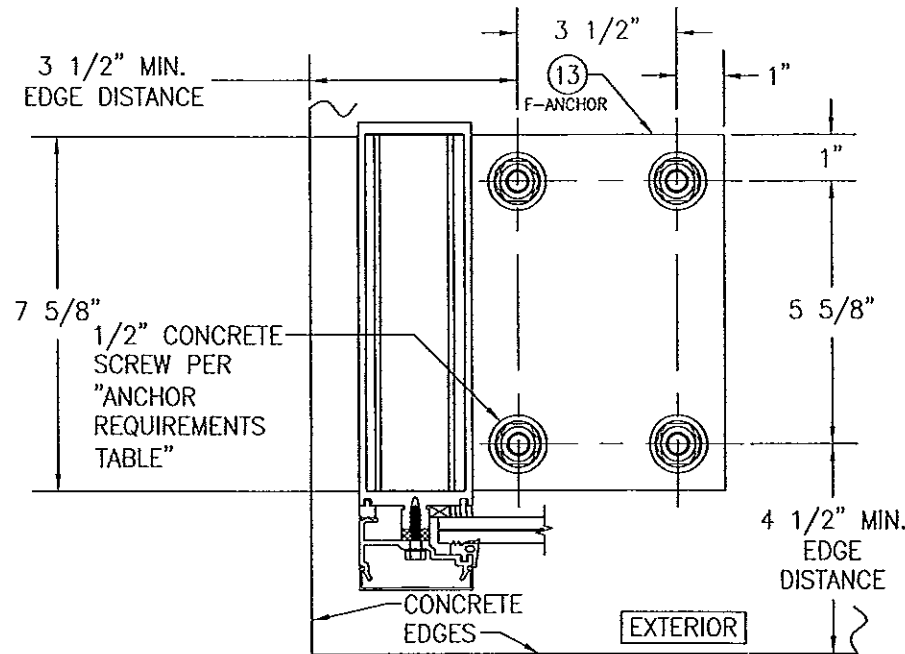
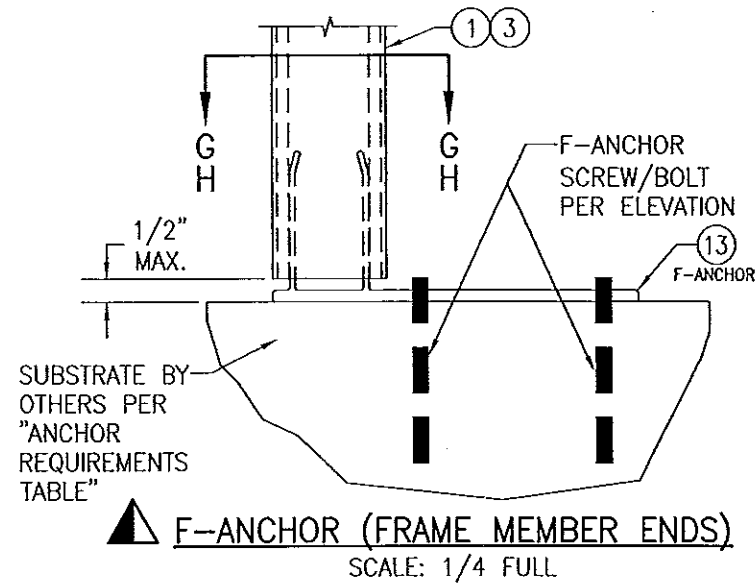


PRODUCT RENEWED
as complying with the Florida
Building Code 13-1
Acceptance No. 01108
Expiration Date 01/08
By [Signature]
Miami Dade Product Control

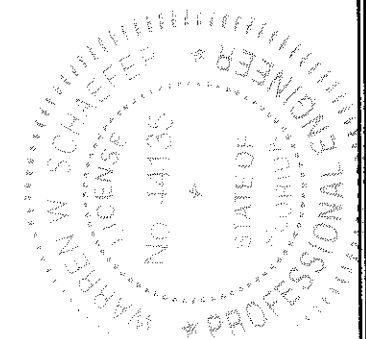
13-1009.09
01/08/2019

STATE OF ILLINOIS
* PROFESSIONAL ENGINEER *
WILLIAM W. SCHAEFER
SC1147 ON 4-11-05
ILLINOIS

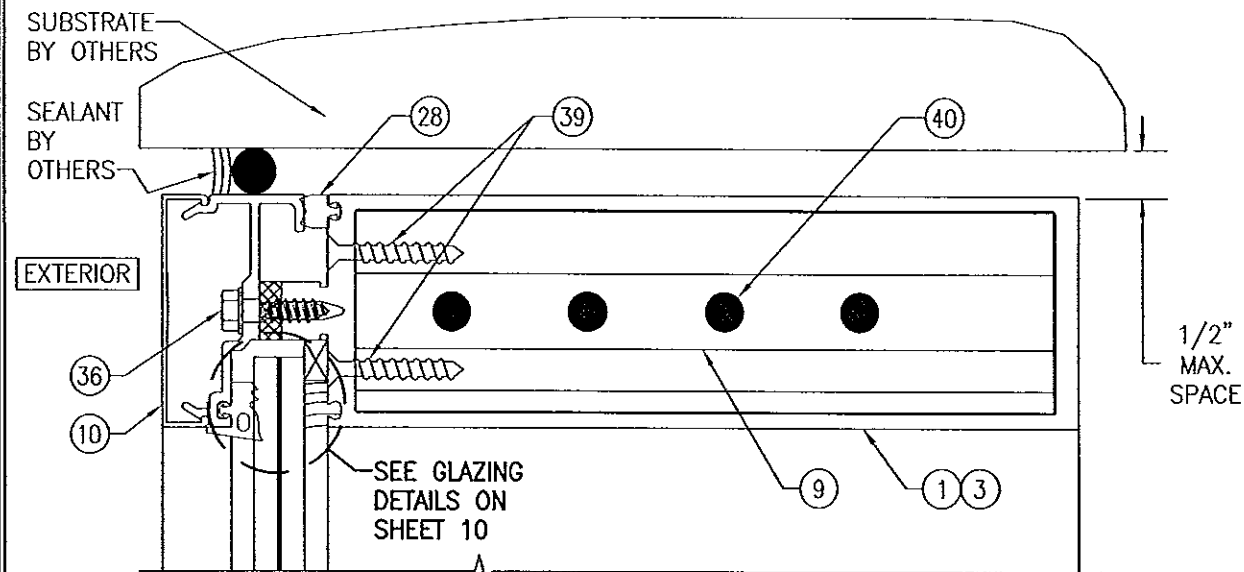
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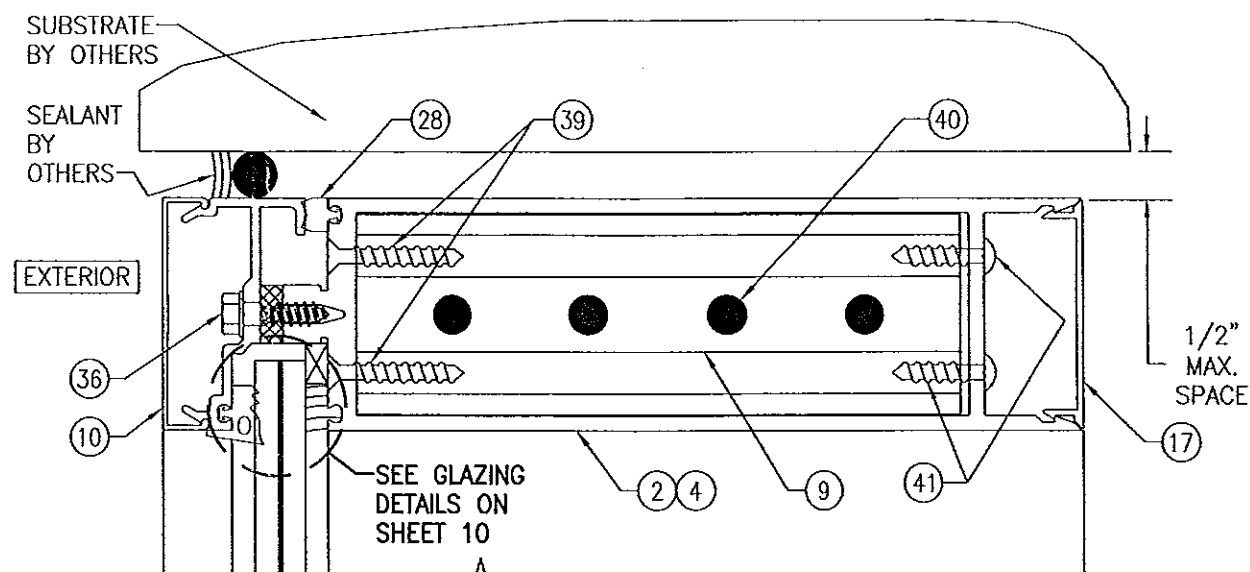
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **13-1009.09**
Expiration Date **01/08/2019**
By *[Signature]*
Miami Dade Product Control



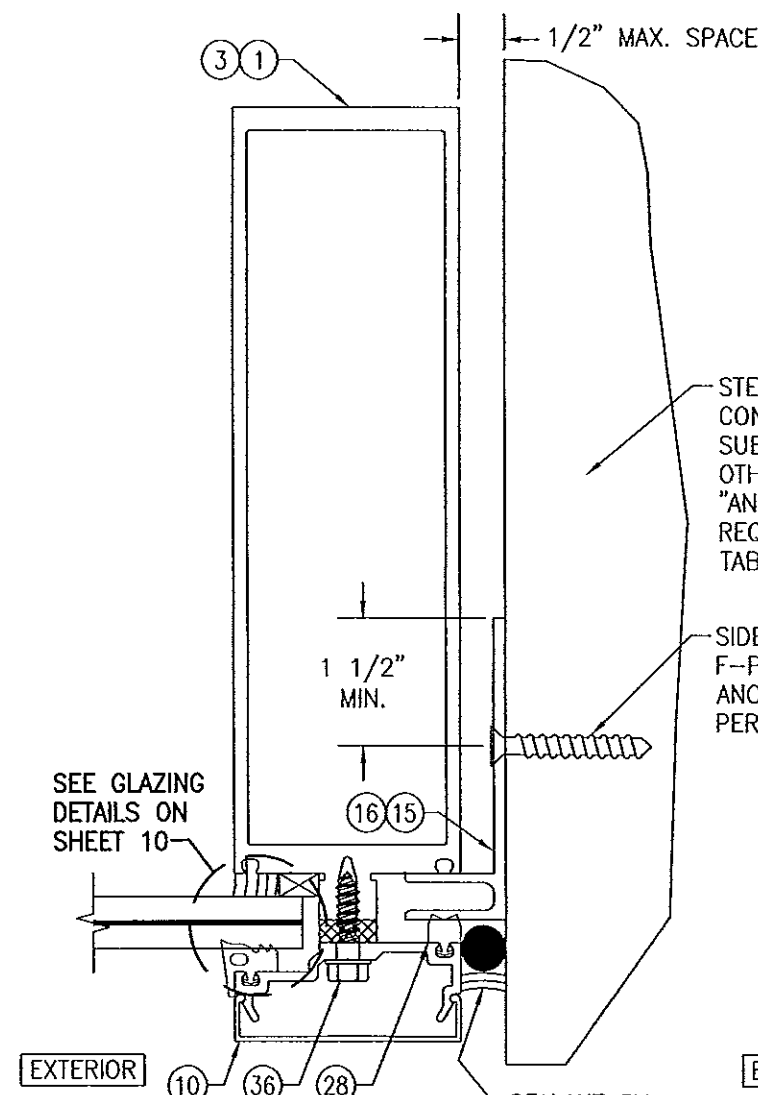
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PLOT: 1=4		DATE: 03/01/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1794 REV. A	
SHEET NO. 6		OF 12	



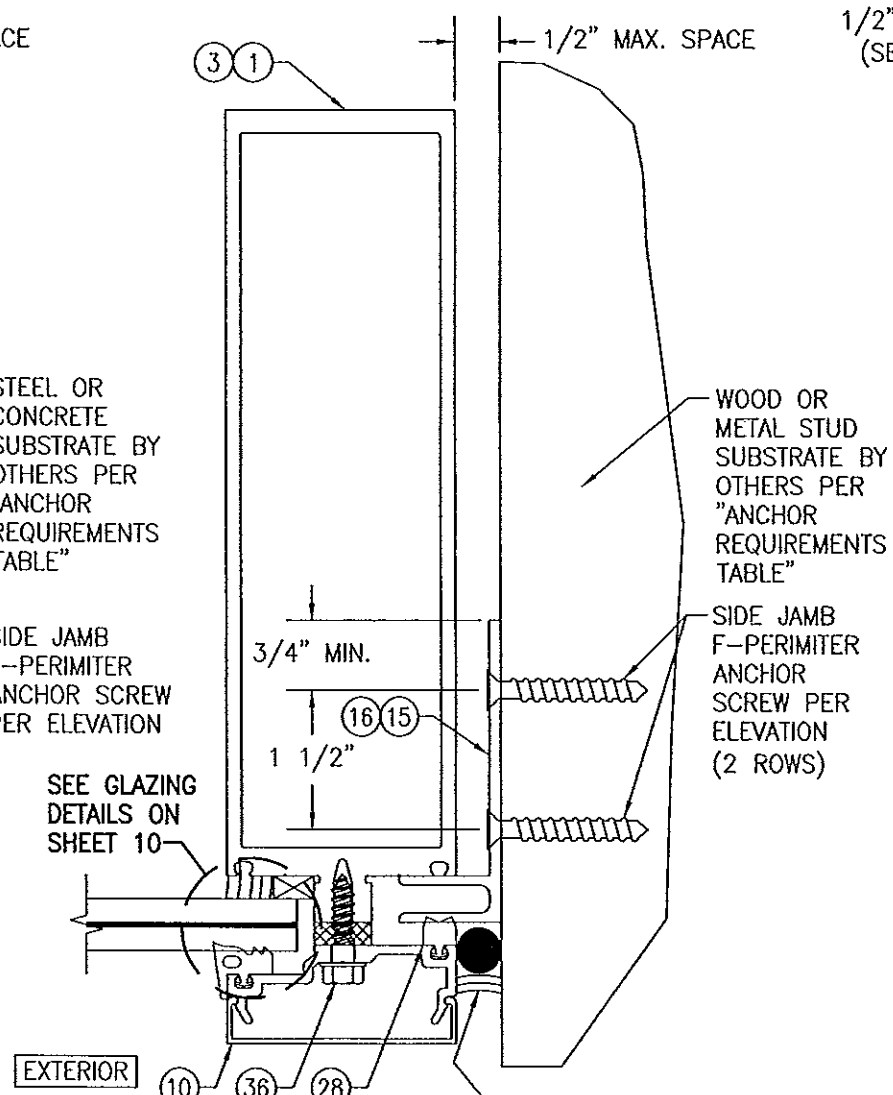
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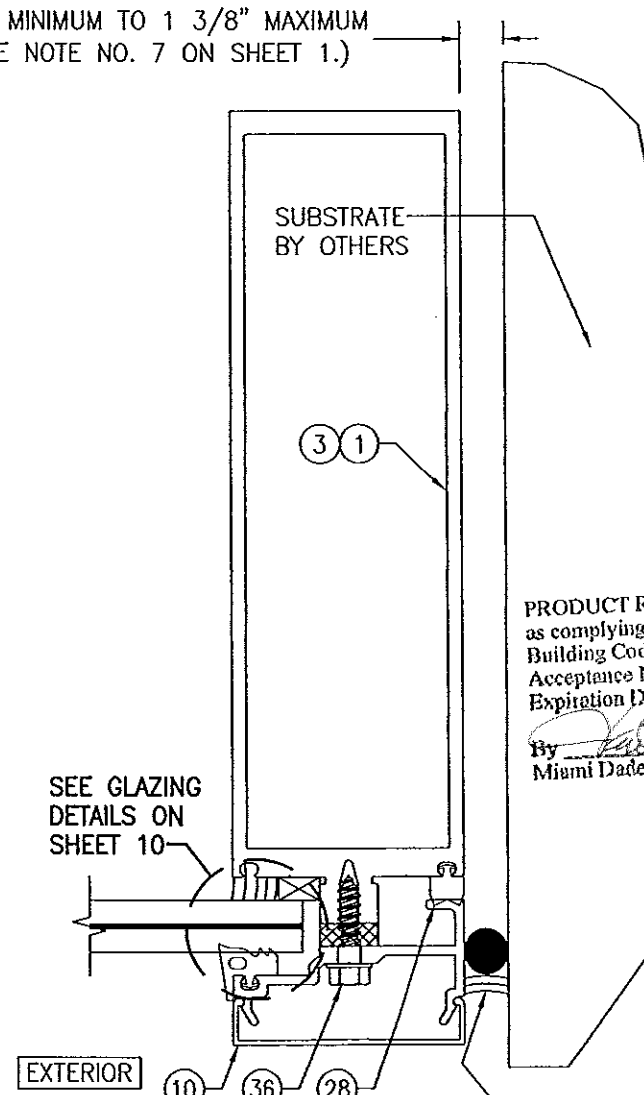
SECTION A2
SCALE: 1/2 FULL



SECTION B1
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO STEEL AND CONCRETE)

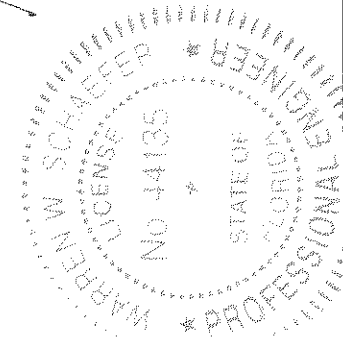


SECTION B2
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)

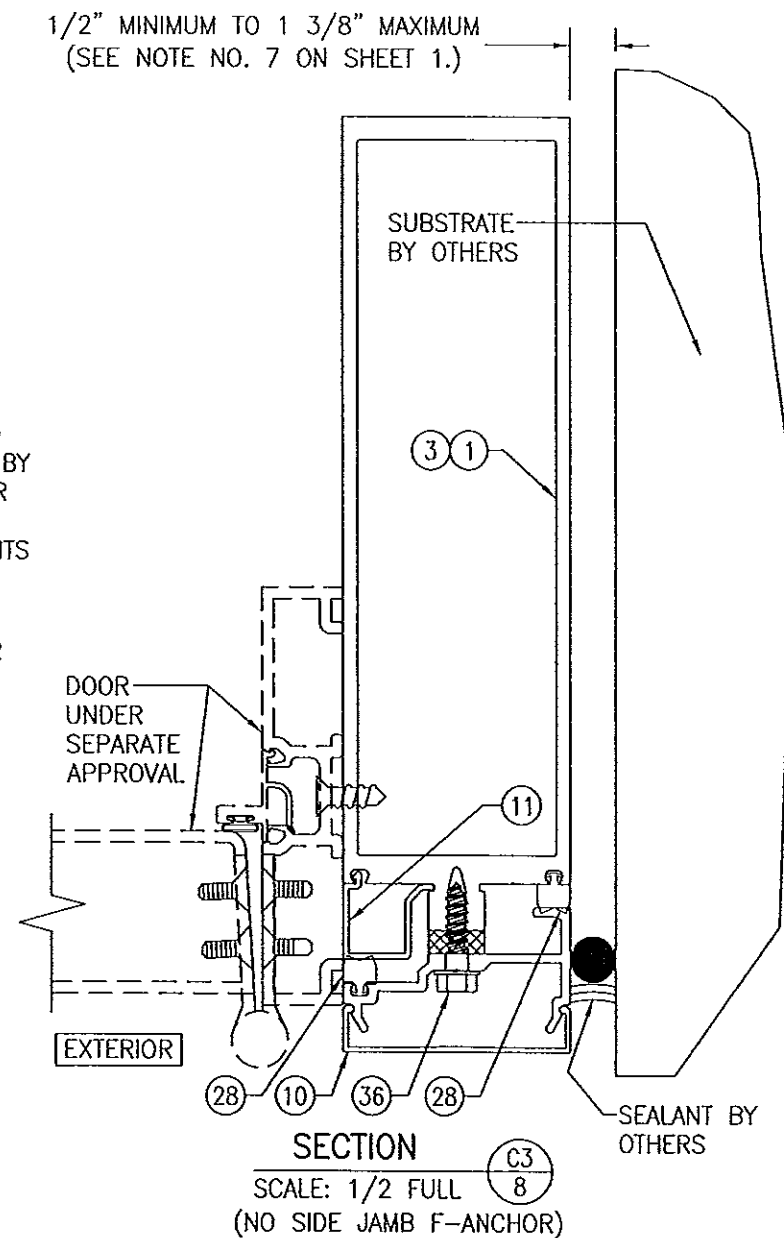
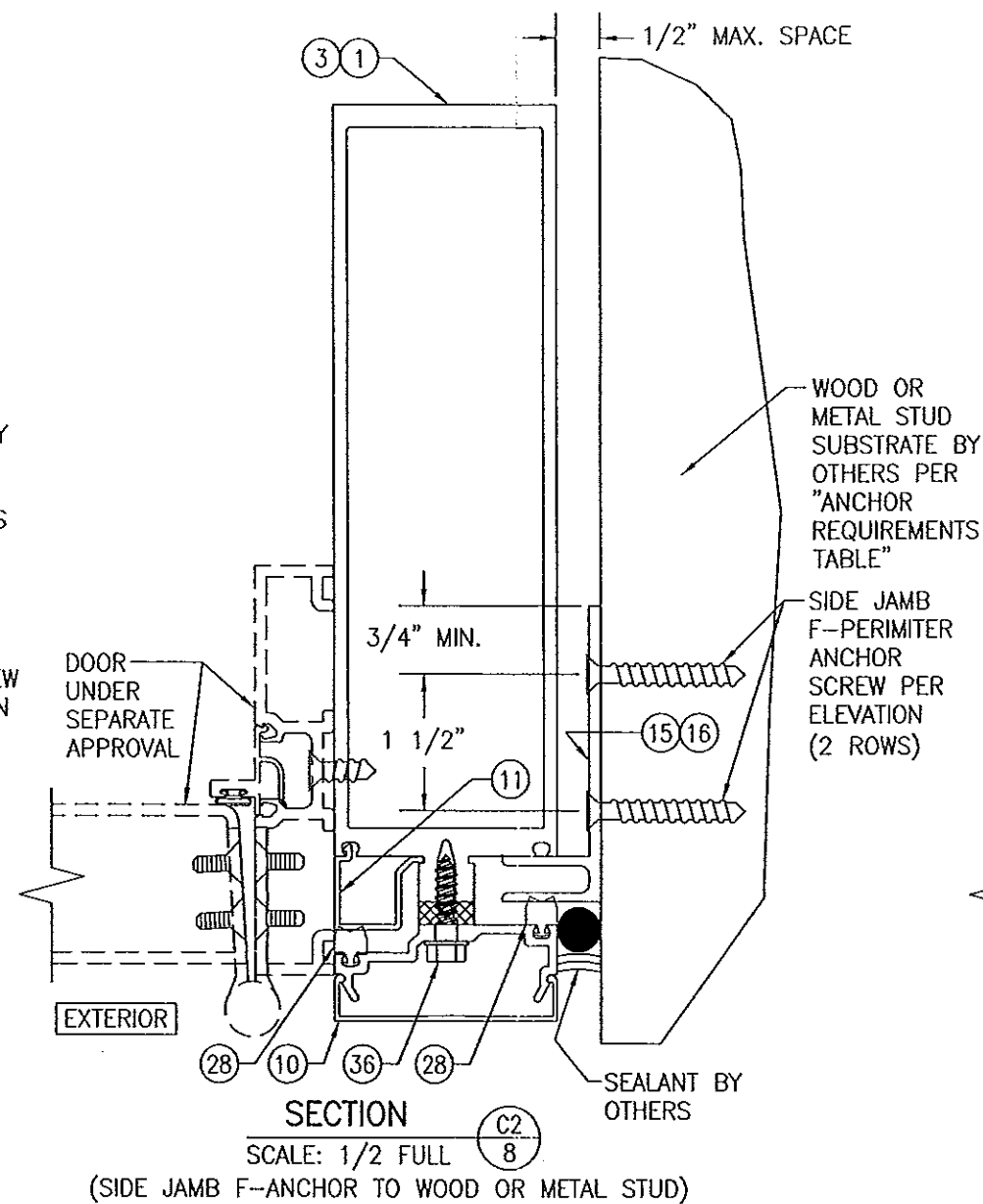
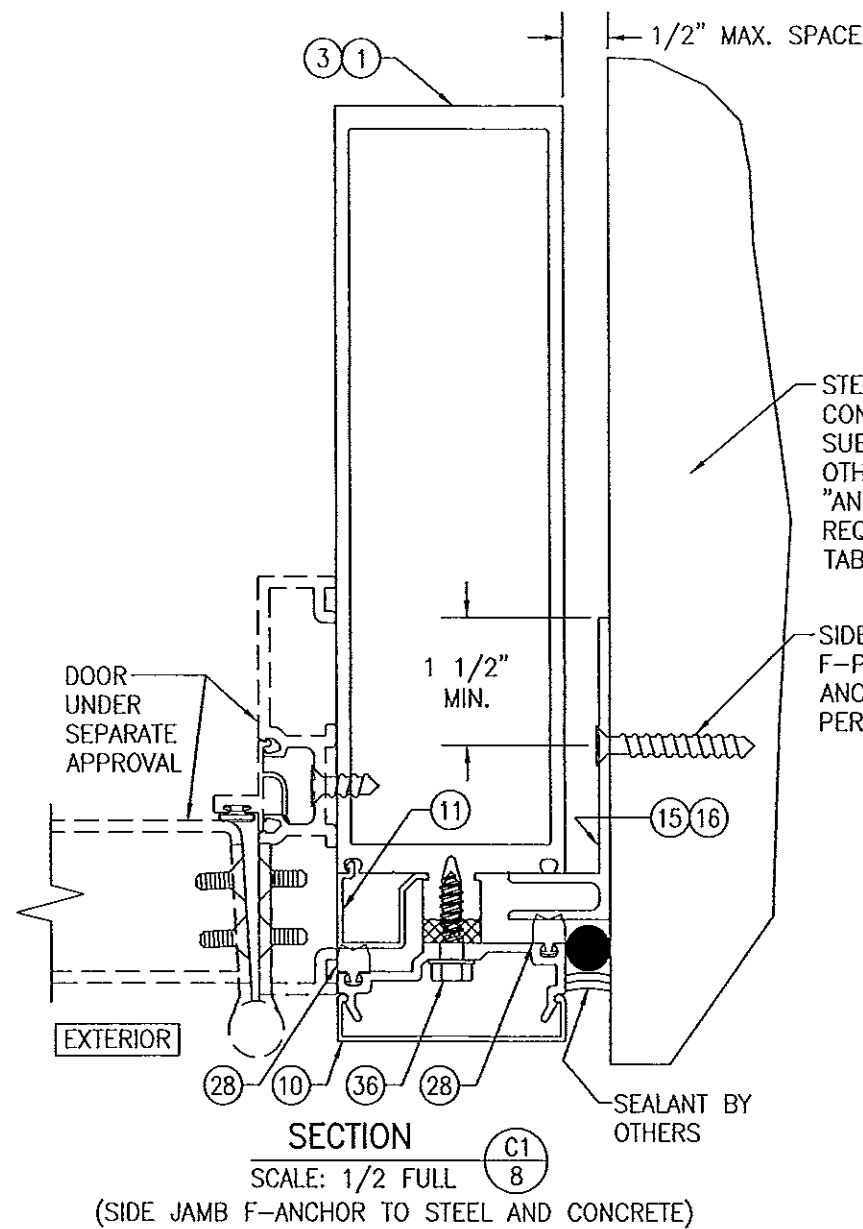


SECTION B3
SCALE: 1/2 FULL
(NO SIDE JAMB F-ANCHOR)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.09
Expiration Date 08/08/2019
By [Signature]
Miami Dade Product Control

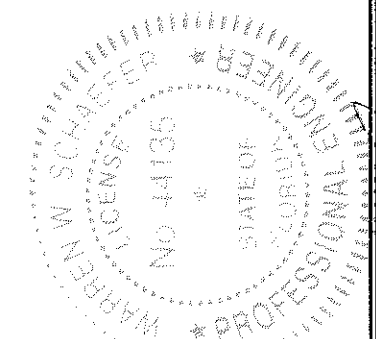


DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/01/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1794	REV. A
SHEET NO. 7 OF 12	

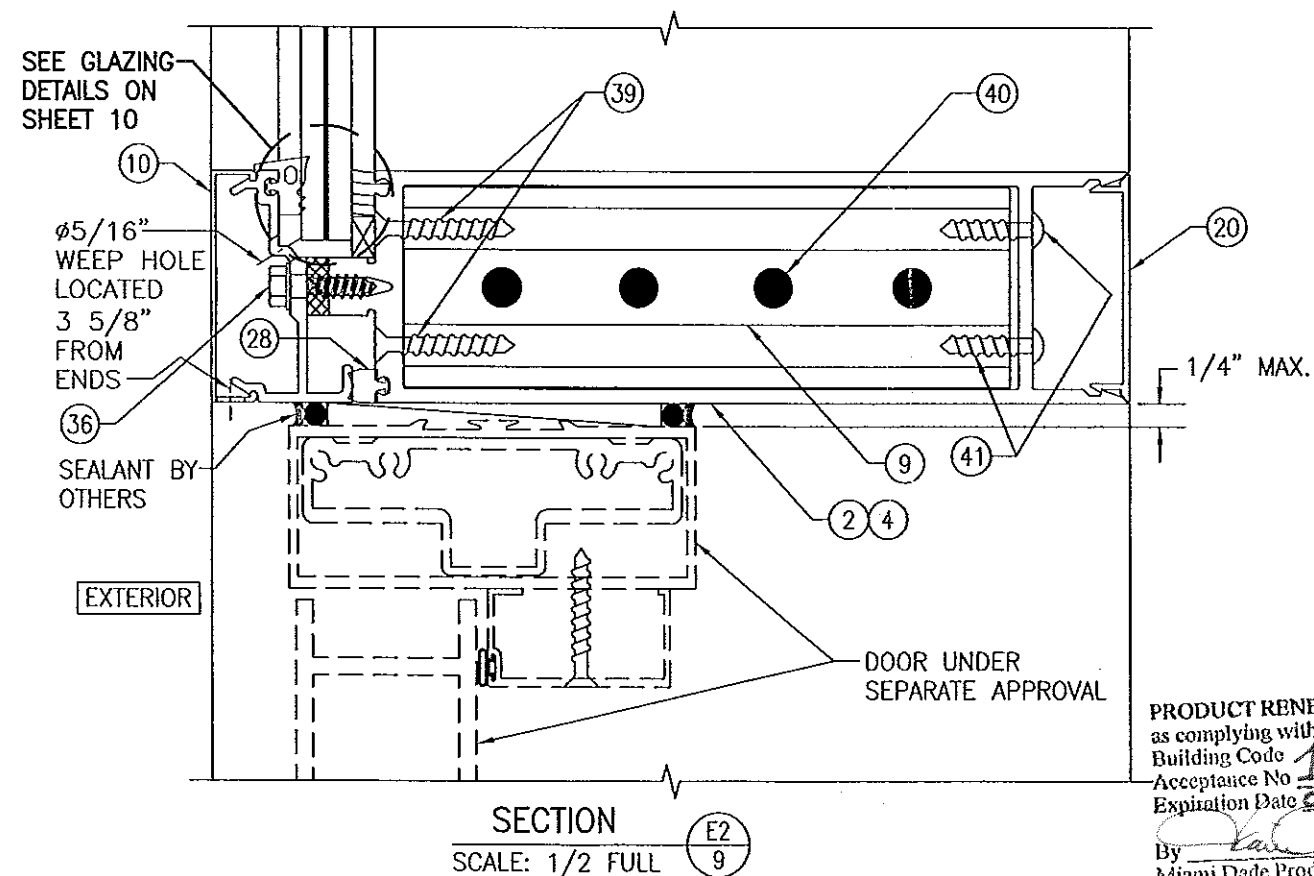
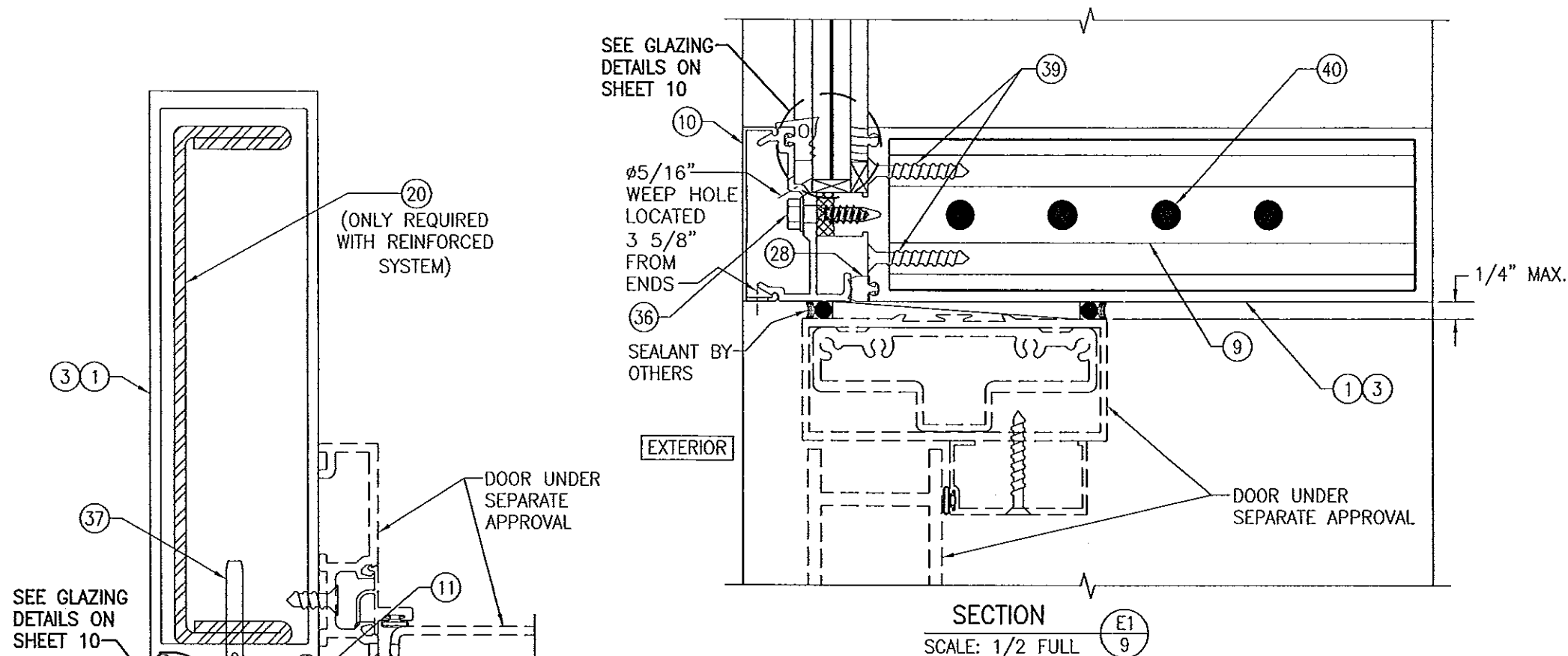


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.09
Expiration Date 01/08/2019

By *[Signature]*
Miami Dade Product Control

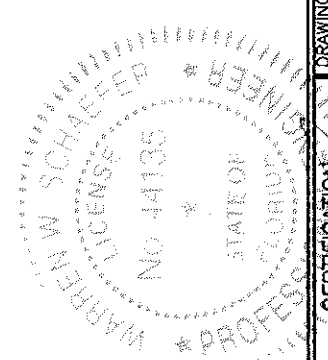


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PLOT: 1-2	DATE: 03/01/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1794	REV. A
SHEET NO. 8 OF 12	

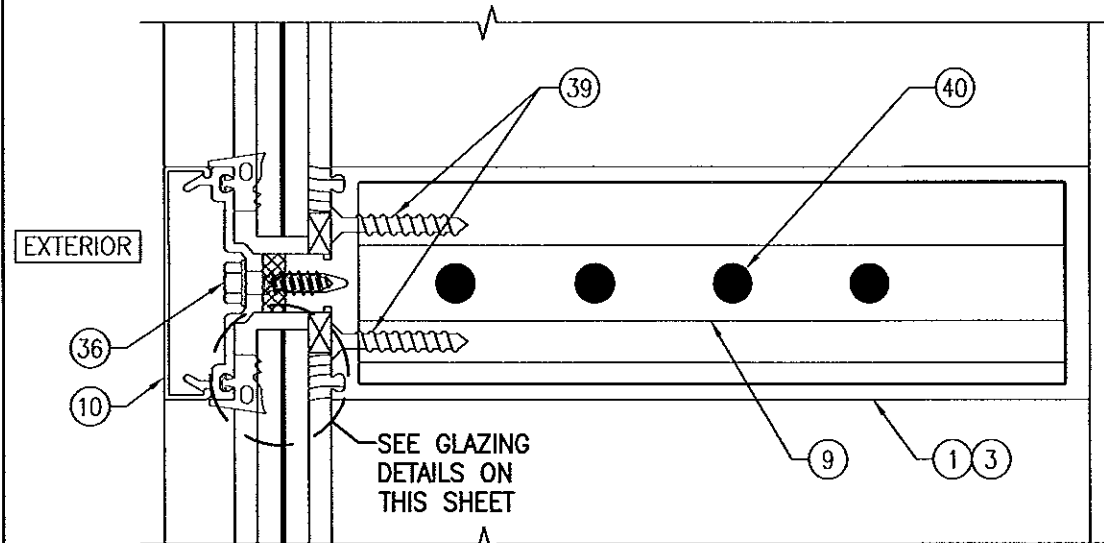


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.09
Expiration Date 21/08/2019

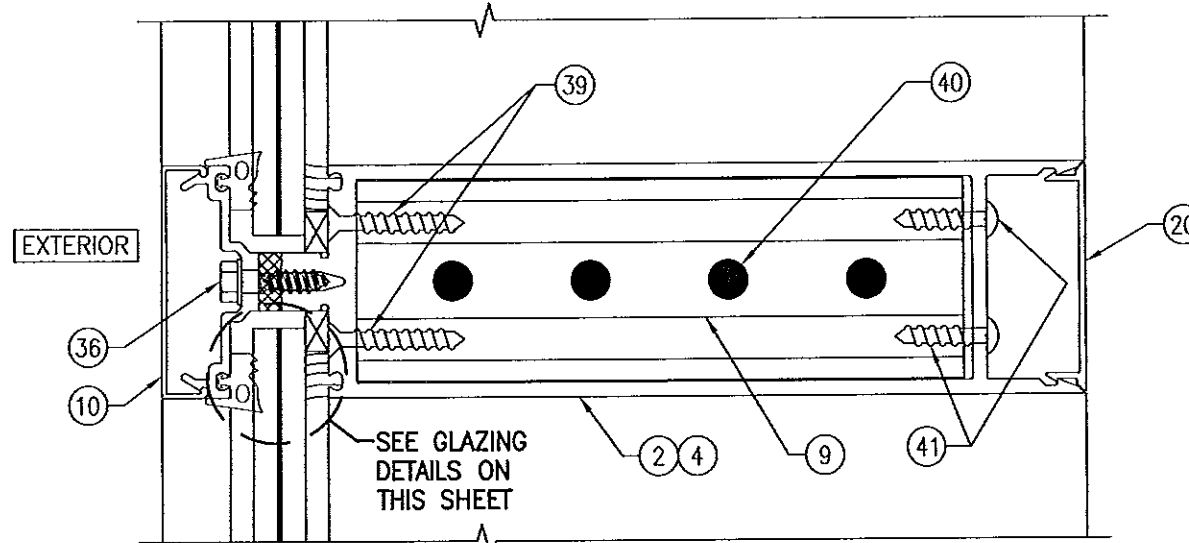
By *Warren W. Schaefer*
Miami Dade Product Control



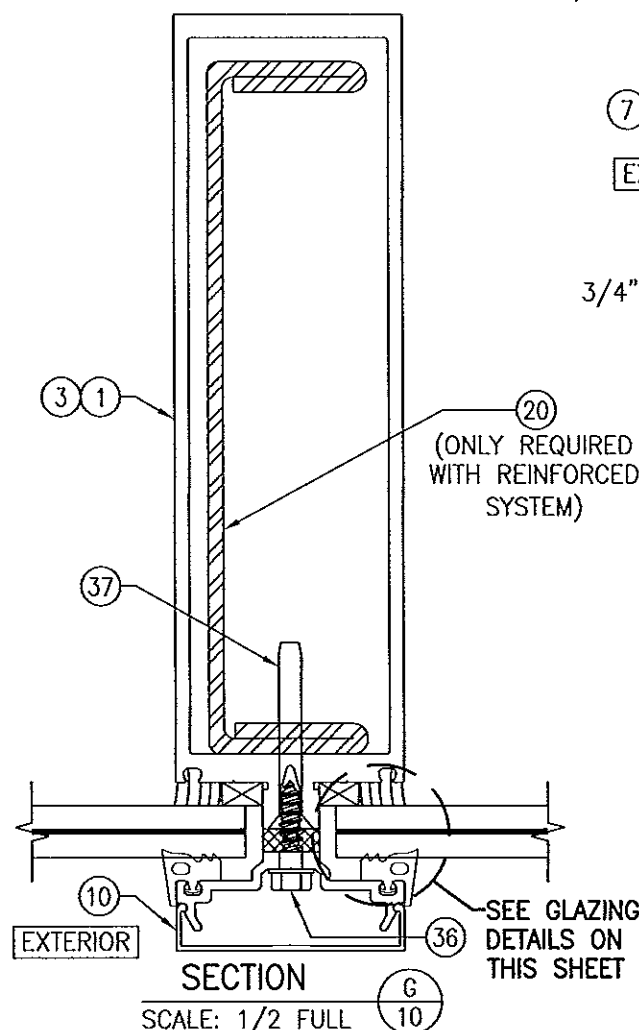
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PLOT: 1=2	DATE: 03/01/12
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1794	REV. A
SHEET NO. 9 OF 12	



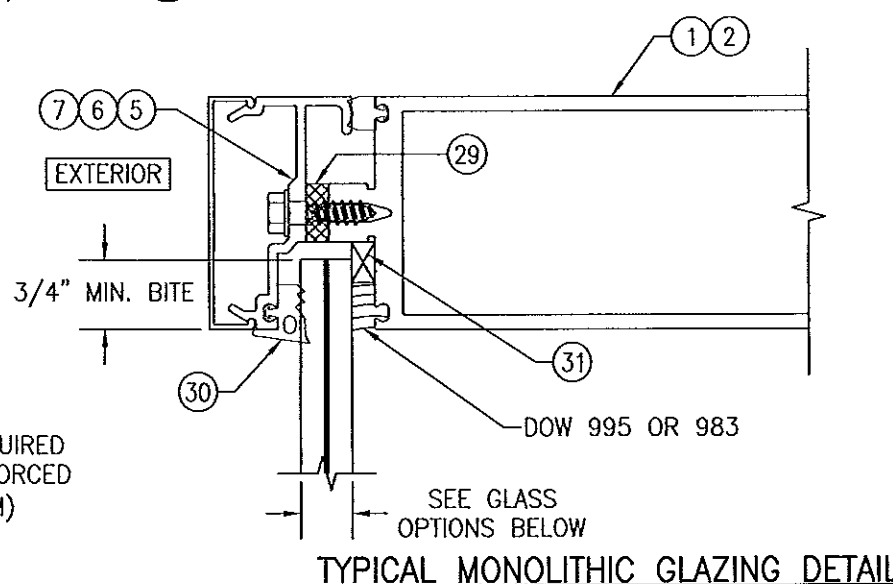
SECTION F1
SCALE: 1/2 FULL 10



SECTION F2
SCALE: 1/2 FULL 10



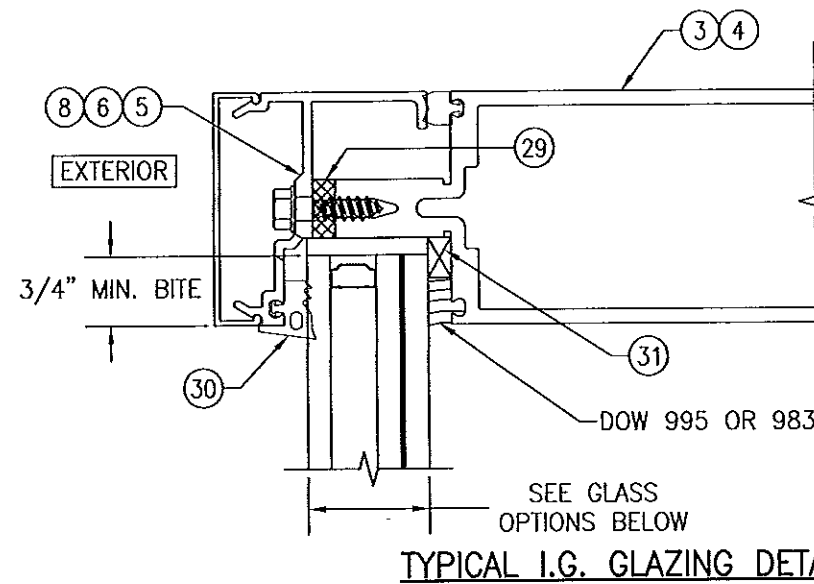
SECTION 6
SCALE: 1/2 FULL 10



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:

- OPTION 1: 5/8" THICK LAMINATED VIRACON HRG-2 GLASS (1/4" HT. ST./0.050" URETHANE/0.080" POLYCARBONATE/0.050" URETHANE/1/4" HT. ST.)
 OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.100" EASTMAN CHEMICAL CO. SAFLEX HP/1/4" HT. ST.)
 OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT SG/1/4" HT. ST.)
 OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)
 OPTION 5: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST.)



TYPICAL I.G. GLAZING DETAIL

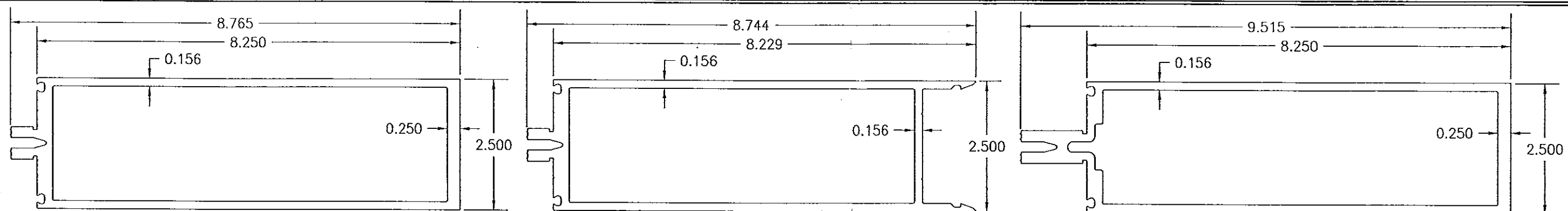
GLASS OPTIONS:

- OPTION 6: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" HT. ST. OR TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.090" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST. INTERIOR)
 OPTION 7: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" HT. ST. OR TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST. INTERIOR)
 OPTION 8: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" HT. ST. OR TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.090" DUPONT SG/1/4" HT. ST. INTERIOR)

NOTE: EXTERIOR GLASS PANE OF I.G. GLAZING SHALL BE TEMPERED WHEN CURTAIN WALL GLASS IS INSTALLED IN A SMALL MISSILE IMPACT LOCATION OF A BUILDING OR WHEN GLASS IS REQUIRED TO CONFORM WITH SECTION 2406 OF THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.

PRODUCT RENEWED
 as complying with the Florida
 Building Code 13-1009.00
 Acceptance No. 11108/2019
 Expiration Date 01/08/2021
 By [Signature]
 Miami Dade Product Control

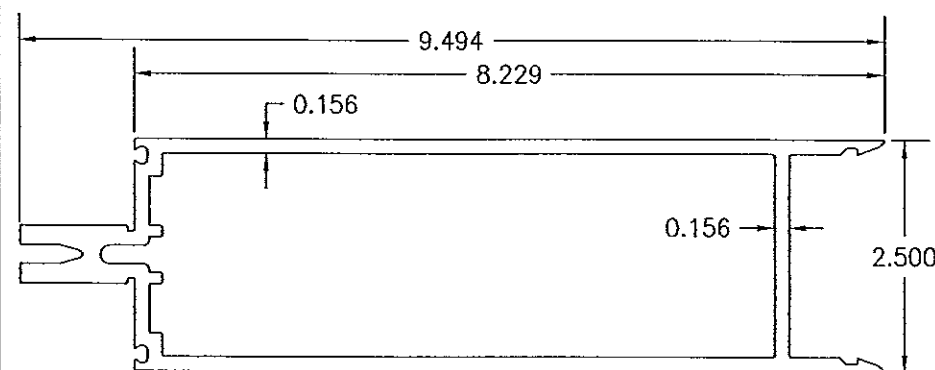
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/01/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. REV. 1794 A SHEET NO. 10 OF 12	



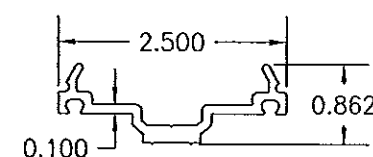
① VERTICAL AND HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS

② ALTERNATE HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS

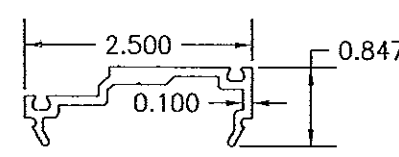
③ VERTICAL AND HORIZONTAL FRAMING USED WITH I.G. GLASS



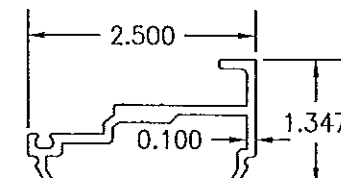
④ ALTERNATE HORIZONTAL FRAMING USED WITH I.G. GLASS



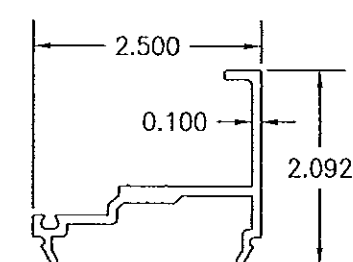
⑤ PRESSURE PLATE



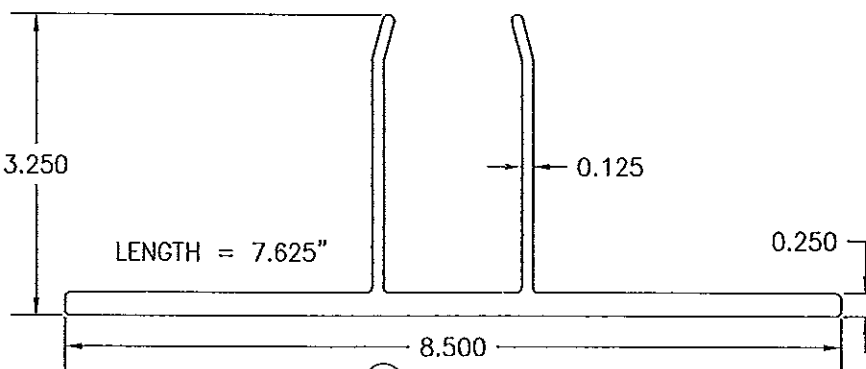
⑥ PRESSURE PLATE



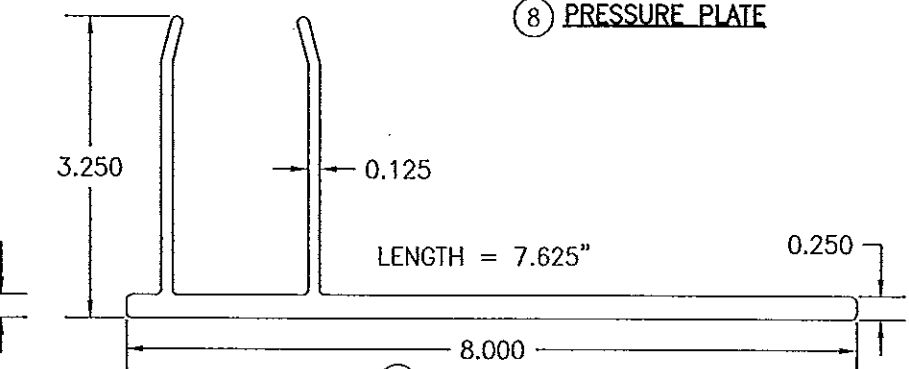
⑦ PRESSURE PLATE



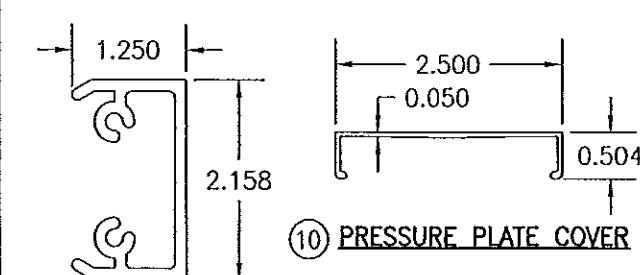
⑧ PRESSURE PLATE



⑫ T-ANCHOR



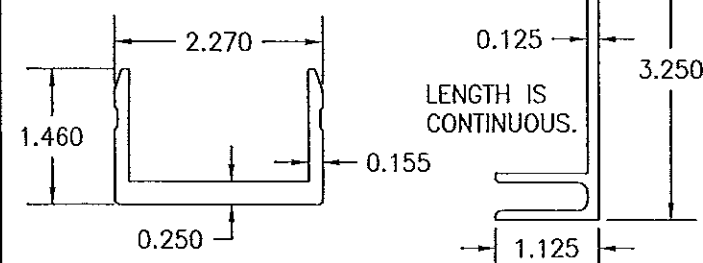
⑬ F-ANCHOR



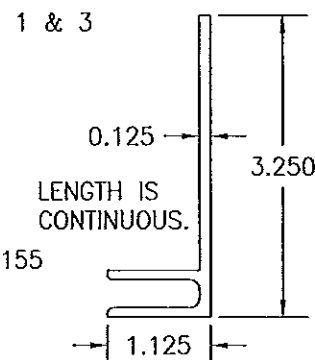
⑩ PRESSURE PLATE COVER

LENGTH = 6.625" WITH PARTS 2 & 4
LENGTH = 7.625" WITH PARTS 1 & 3

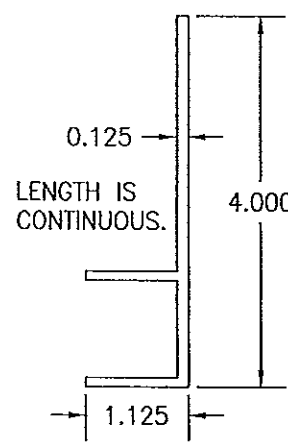
⑨ SHEAR BLOCK



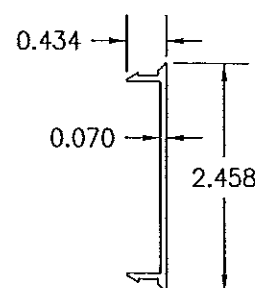
⑭ U-ANCHOR



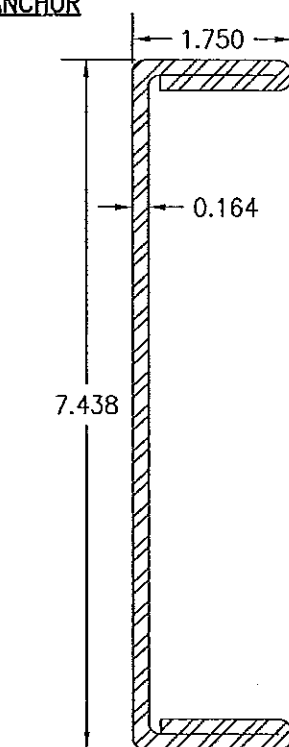
⑮ F-PERIMETER ANCHOR USED WITH MONOLITHIC GLASS SYSTEMS



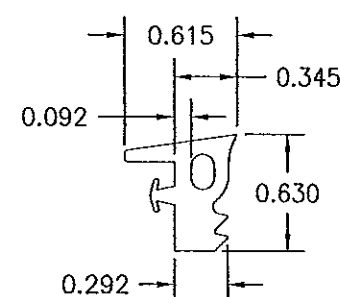
⑯ F-PERIMETER ANCHOR USED WITH I.G. GLASS SYSTEMS



⑰ HORIZONTAL FRAMING FILLER



⑳ MULLION REINFORCEMENT



㉑ EXTERIOR GLAZING FIXED GASKET

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.09
Expiration Date 01/08/2019

By *[Signature]*
Miami Dade Product Control

DRAWN BY:	W.W.S.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	03/01/12
NO.		REVISION	
DATE		DESCRIPTION	
BY			

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (L.M.I.)

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
SEP 04 2013
W. W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1794
SHEET NO.
11 OF 12

